

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P285745

Luminaire Tested: **USSL-XL-C047-D-U-T2-BZ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285745
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-5)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-C047-D-U-T2-BZ-7030
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K LEDS AND TYPE II OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25786 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 176
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

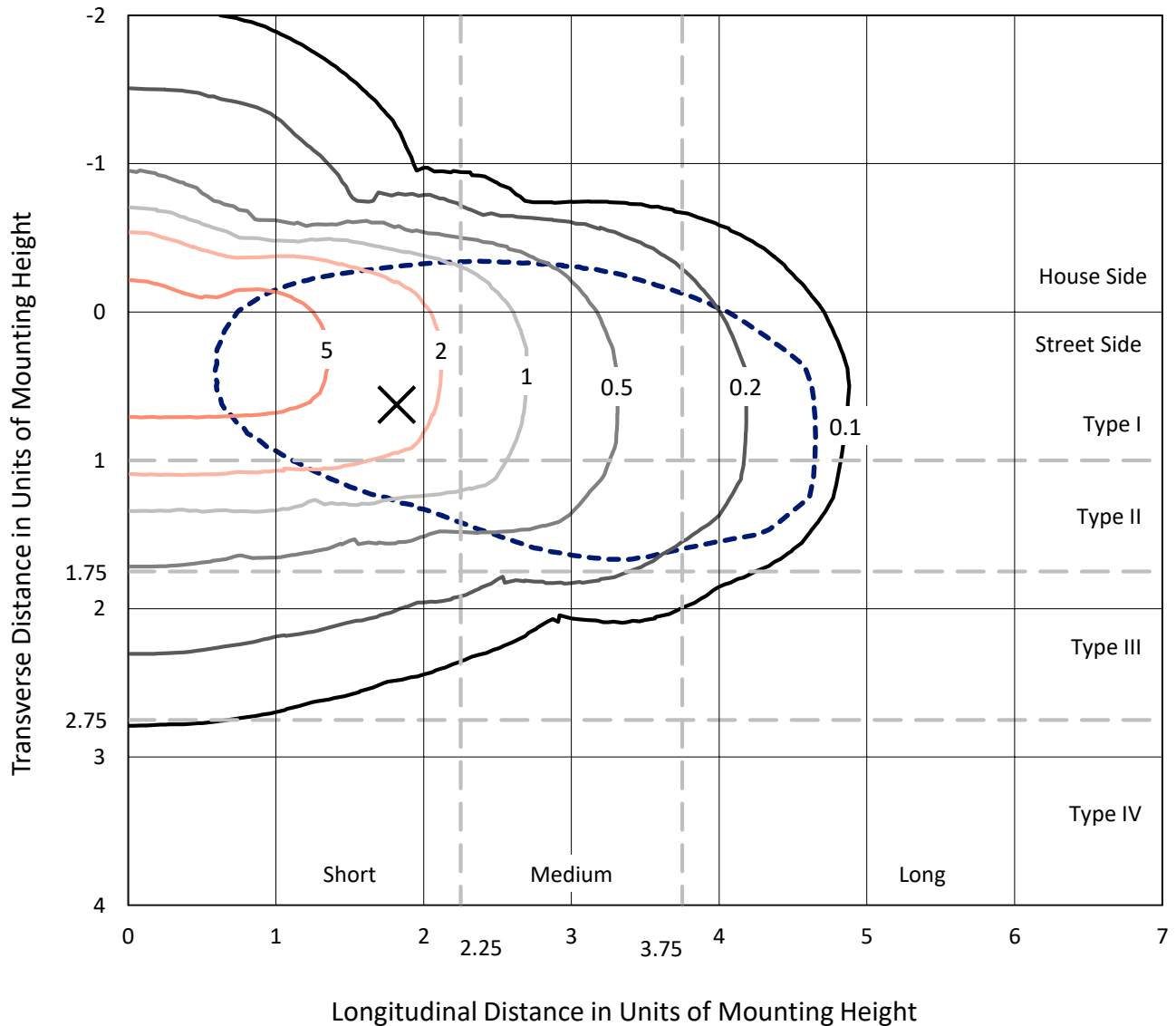


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

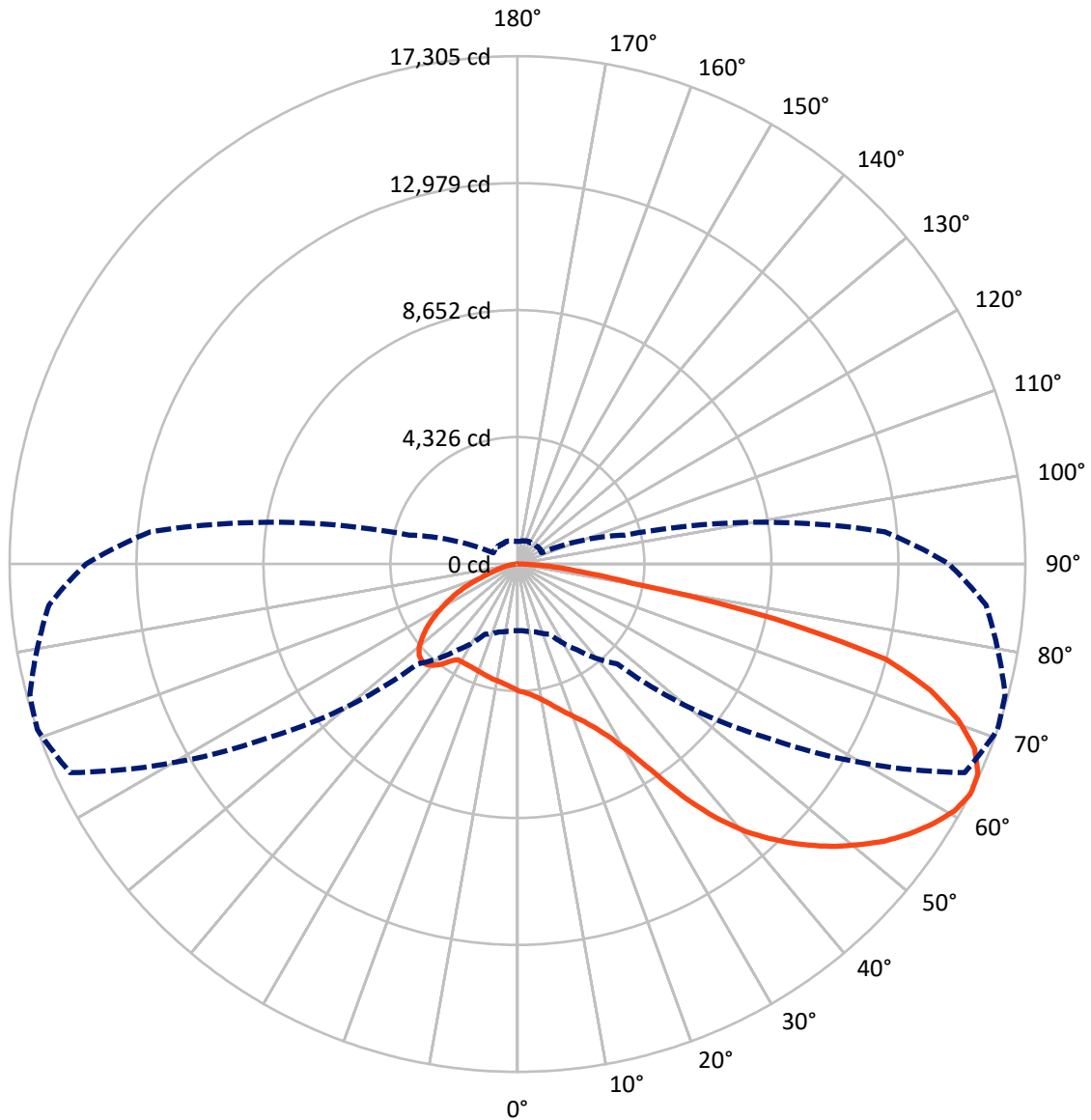


Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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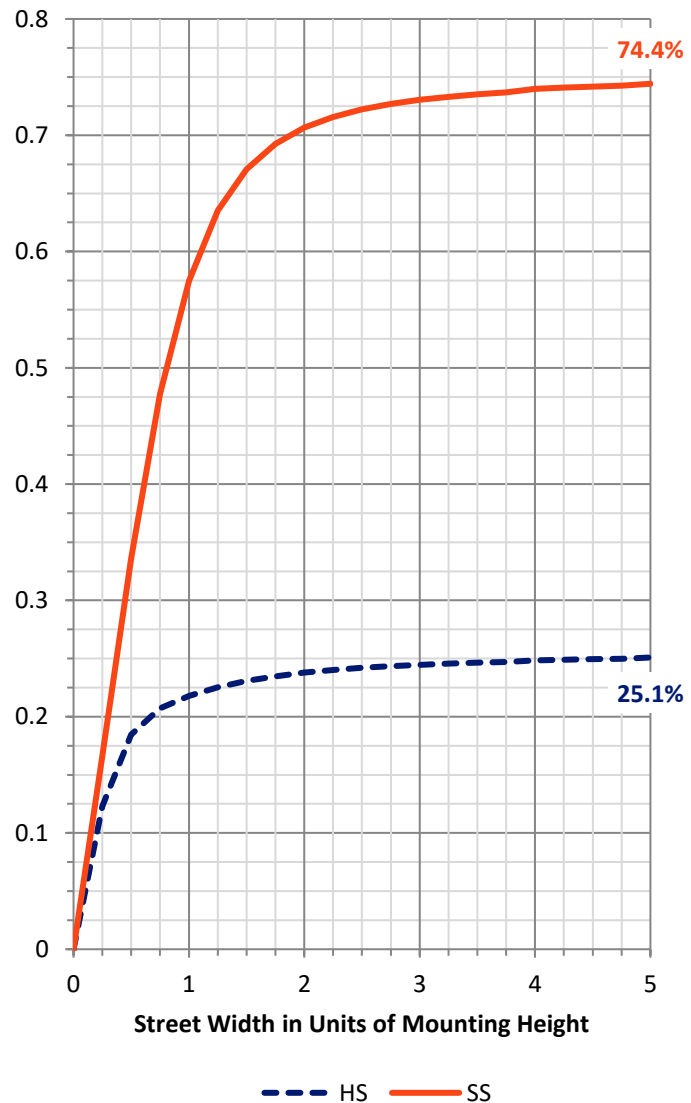
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6585.0	0.0	6585.0
	% Fixture	25.5	0.0	25.5
Street Side	Lumens	19201.0	0.0	19201.0
	% Fixture	74.5	0.0	74.5
Total	Lumens	25786.0	0.0	25786.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.5	1.6
10°-20°	1274.7	4.9
20°-30°	2160.9	8.4
30°-40°	3257.0	12.6
40°-50°	4474.3	17.4
50°-60°	5201.9	20.2
60°-70°	5132.8	19.9
70°-80°	3282.0	12.7
80°-90°	585.9	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	25786.0	100.0
0°-180°	25786.0	100.0



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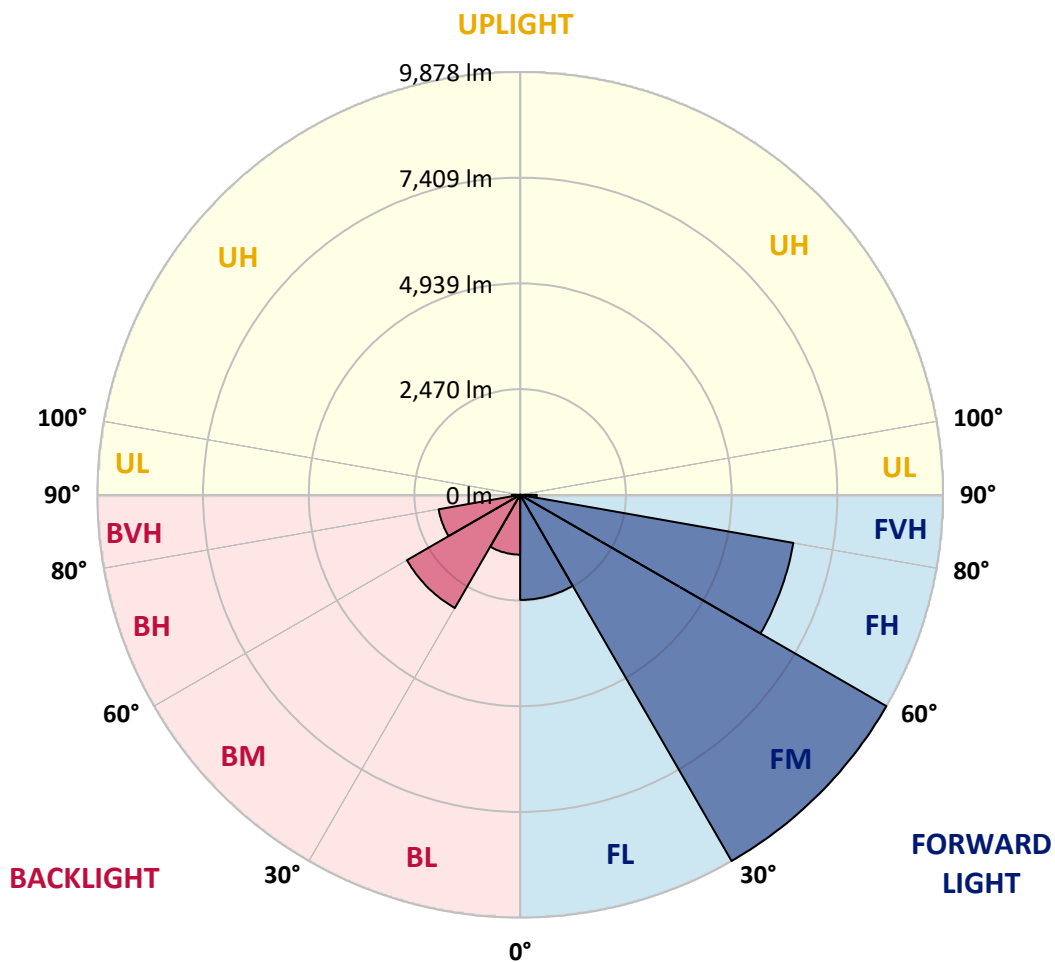
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2454.2	9.5			
FM	(30°-60°)	9878.1	38.3			
FH	(60°-80°)	6481.5	25.1			G3/7500
FVH	(80°-90°)	387.1	1.5			G3/500
BL	(0°-30°)	1397.9	5.4	B3/2500		
BM	(30°-60°)	3055.0	11.8	B3/5000		
BH	(60°-80°)	1933.3	7.5	B3/2500		G3/2500
BVH	(80°-90°)	198.7	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	4323.0	4323.0	4323.0	4323.0	4323.0	4323.0	4323.0	4323.0	4323.0	4323.0	4323.0
2.5°	4608.8	4599.9	4589.1	4570.5	4548.9	4523.3	4496.8	4436.9	4375.1	4355.4	4313.2
5°	4862.1	4845.4	4831.6	4814.0	4772.7	4720.7	4651.0	4552.8	4456.6	4426.1	4338.8
7.5°	5085.9	5067.3	5042.7	5019.2	4974.0	4907.2	4813.0	4688.3	4572.4	4519.4	4377.0
10°	5285.2	5267.6	5254.8	5228.3	5192.0	5111.5	4999.5	4843.4	4708.9	4635.3	4437.9
12.5°	5506.2	5491.4	5464.9	5434.5	5386.4	5308.8	5196.9	5027.0	4883.7	4794.3	4531.2
15°	5731.0	5721.2	5674.1	5656.4	5602.4	5513.0	5413.9	5239.1	5092.8	4981.9	4664.7
17.5°	5930.3	5923.4	5894.0	5873.4	5829.2	5729.0	5626.9	5466.9	5317.6	5176.3	4813.0
20°	6058.0	6067.8	6061.9	6058.0	6055.0	5972.5	5871.4	5706.5	5556.2	5415.8	4972.0
22.5°	6176.8	6180.7	6196.4	6232.7	6284.8	6248.4	6139.4	5987.3	5834.1	5666.2	5178.2
25°	6214.1	6217.0	6277.9	6387.9	6534.1	6549.9	6460.5	6358.4	6191.5	6026.5	5461.0
27.5°	6244.5	6252.4	6328.9	6521.4	6778.6	6853.2	6820.8	6787.5	6669.6	6496.8	5841.0
30°	6235.7	6237.6	6364.3	6611.7	6973.0	7174.3	7223.4	7384.4	7355.0	7237.1	6477.2
32.5°	6073.7	6058.9	6242.5	6613.7	7125.2	7496.4	7723.2	8181.7	8355.5	8386.9	7749.7
35°	5743.8	5743.8	6018.7	6537.1	7235.2	7814.5	8292.6	9151.7	9737.9	9753.6	8959.3
37.5°	5468.8	5486.5	5794.8	6393.7	7286.2	8137.5	8945.5	10337.8	10956.4	10903.3	9969.6
40°	5194.9	5216.5	5532.7	6198.4	7255.8	8416.3	9578.8	11468.9	11983.4	11861.6	10830.7
42.5°	4891.5	4908.2	5204.7	5920.5	7150.7	8619.6	10259.2	12434.0	12843.5	12695.2	11616.2
45°	4588.1	4616.6	4883.7	5547.4	6945.5	8741.3	10842.5	13309.8	13641.7	13470.8	12330.9
47.5°	4141.4	4251.4	4562.6	5179.2	6573.4	8732.5	11359.9	14096.3	14378.1	14196.4	12975.0
50°	3233.2	3298.0	3984.3	4845.4	6082.5	8556.7	11768.3	14798.3	15039.8	14878.8	13626.0
52.5°	2936.7	2954.4	3176.3	4436.0	5538.6	8209.2	12070.7	15447.3	15682.9	15498.3	14215.1
55°	2784.5	2794.3	2903.3	3626.9	5077.1	7569.0	12208.2	16047.2	16224.9	16016.8	14713.9
57.5°	2577.3	2607.8	2760.0	3091.8	4604.8	6663.7	12030.5	16518.5	16696.2	16470.4	15191.0
60°	2424.2	2442.8	2573.4	2830.6	4057.9	5605.3	11415.9	16859.2	17098.7	16890.6	15633.8
62.5°	2273.0	2283.8	2393.7	2641.2	3587.6	4817.9	10268.1	16819.9	17304.9	17200.9	16026.6
63°	2241.5	2251.4	2361.3	2606.8	3517.9	4656.9	10026.6	16770.8	17304.9	17232.3	16075.7
65°	2102.1	2113.9	2222.9	2446.7	3226.3	4252.3	8948.5	16465.5	17243.1	17277.4	16145.4
67.5°	1895.0	1914.6	2004.9	2200.3	2788.4	3759.5	7349.1	16146.4	16799.3	16872.9	15759.5
70°	1650.5	1654.4	1763.4	1927.4	2350.5	3197.9	5665.2	15178.3	15932.3	15964.7	14857.2
72.5°	1390.3	1401.1	1499.3	1637.7	1949.9	2648.0	4050.1	13382.5	14720.7	14903.4	13346.2
75°	1213.6	1222.4	1304.9	1402.1	1619.1	2087.4	2708.9	9758.5	12978.0	13181.2	11544.5
77.5°	1016.2	1022.1	1108.5	1175.3	1315.7	1574.9	1870.4	5148.8	8938.7	10020.7	9019.2
80°	723.6	724.6	811.0	863.0	953.4	968.1	1189.0	2740.3	3933.3	5083.0	5960.8
82.5°	157.1	225.8	339.7	427.1	478.2	402.6	585.2	1501.2	2172.8	2594.0	3231.2
85°	67.7	93.3	179.7	197.3	131.6	145.3	237.6	800.2	1242.0	1478.7	1663.2
87.5°	12.8	16.7	46.1	61.9	38.3	40.3	48.1	256.3	435.0	510.6	569.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4323.0	4323.0	4323.0	4323.0	4323.0	4323.0	4323.0	4323.0	4323.0	4323.0	4323.0
2.5°	4287.7	4275.9	4236.6	4210.1	4193.4	4171.8	4144.3	4108.0	4097.2	4071.7	4092.3
5°	4290.6	4259.2	4176.7	4116.9	4062.9	4015.7	3960.7	3908.7	3889.1	3854.7	3868.5
7.5°	4304.4	4251.4	4123.7	4032.4	3951.9	3888.1	3811.5	3747.7	3725.1	3685.8	3692.7
10°	4340.7	4258.2	4082.5	3971.5	3860.6	3767.3	3678.0	3590.6	3551.3	3517.0	3533.6
12.5°	4404.5	4283.8	4063.8	3921.5	3774.2	3660.3	3529.7	3417.8	3362.8	3318.6	3333.3
15°	4500.8	4332.9	4042.2	3849.8	3672.1	3523.8	3363.8	3222.4	3160.5	3126.2	3142.9
17.5°	4598.9	4404.5	4029.5	3762.4	3549.4	3356.9	3202.8	3069.2	2956.3	2930.8	2940.6
20°	4714.8	4478.2	4039.3	3670.1	3405.0	3177.2	2994.6	2905.3	2759.0	2707.9	2710.9
22.5°	4868.0	4593.0	4048.1	3579.8	3233.2	2978.9	2765.8	2677.5	2537.1	2446.7	2450.7
25°	5087.9	4735.4	4068.7	3496.3	3064.3	2760.9	2514.5	2367.2	2279.8	2165.0	2165.9
27.5°	5389.3	4930.8	4110.0	3417.8	2884.6	2510.6	2209.1	2044.2	1967.6	1892.0	1882.2
30°	5903.8	5253.8	4170.9	3331.4	2671.6	2208.2	1887.1	1742.8	1678.0	1616.1	1609.2
32.5°	6989.7	6038.3	4255.3	3222.4	2441.8	1864.5	1602.4	1488.5	1397.2	1336.3	1345.1
35°	8104.1	7021.1	4612.7	3092.8	2182.6	1564.1	1388.3	1246.9	1130.1	1083.0	1085.9
37.5°	9058.5	7911.7	5149.8	2952.4	1895.9	1370.6	1173.3	1036.8	943.5	920.0	949.4
40°	9852.8	8643.1	5580.8	2804.1	1594.5	1207.7	956.3	881.7	821.8	814.9	841.4
42.5°	10603.9	9303.9	5943.1	2633.3	1313.7	997.5	794.3	812.0	803.1	802.2	806.1
45°	11286.3	9916.6	6145.3	2379.0	1115.4	816.9	750.1	816.9	831.6	829.7	818.9
47.5°	11907.8	10476.2	6282.8	2010.8	944.5	765.8	774.7	819.8	847.3	852.2	840.5
50°	12552.8	11023.1	6304.4	1565.1	876.8	806.1	796.3	790.4	840.5	839.5	840.5
52.5°	13129.2	11492.4	6068.8	1216.5	912.1	848.3	813.9	779.6	808.1	809.0	789.4
55°	13563.1	11877.3	5665.2	1066.3	941.6	883.7	865.0	796.3	778.6	766.8	773.7
57.5°	14010.9	12221.0	5117.4	998.5	950.4	891.5	910.2	800.2	773.7	719.7	715.8
60°	14441.9	12498.8	4468.4	953.4	939.6	887.6	881.7	830.6	779.6	699.1	671.6
62.5°	14704.0	12559.7	3804.6	909.2	919.0	881.7	850.3	853.2	817.9	773.7	767.8
63°	14734.5	12539.1	3678.0	898.4	914.1	880.7	850.3	855.2	817.9	791.4	792.3
65°	14696.2	12299.5	3181.2	852.2	896.4	865.0	837.5	813.0	752.1	768.8	788.4
67.5°	14266.1	11516.0	2445.8	777.6	857.1	839.5	799.2	738.3	683.4	672.6	684.3
70°	13104.6	10232.7	1732.9	662.7	786.5	807.1	789.4	698.1	643.1	633.3	656.9
72.5°	11492.4	8884.7	1190.0	530.2	658.8	751.1	746.2	672.6	623.5	595.0	606.8
75°	9674.1	7166.5	831.6	446.7	507.6	676.5	707.9	651.0	613.7	587.1	583.2
77.5°	7448.2	5412.9	653.9	381.9	419.2	547.9	651.0	646.1	692.2	816.9	789.4
80°	5074.2	3599.4	471.3	286.7	333.8	383.9	560.6	666.7	875.8	514.5	504.7
82.5°	2949.4	2114.9	294.6	190.5	199.3	261.2	351.5	704.0	586.2	231.7	292.6
85°	1424.7	921.0	147.3	131.6	91.3	98.2	163.0	655.9	415.3	103.1	20.6
87.5°	454.6	223.9	15.7	11.8	13.7	19.6	77.6	400.6	244.5	88.4	12.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)